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ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER: 144:331652

TITLE: Sc(OTf)3-catalyzed C-glycosylation of

 β -diketones. A facile access to useful precursors

of heteroaromatic C-

glycosides

AUTHOR(S): Yamauchi, Takahito; Shigeta, Masayuki; Matsumoto,

Takashi; Suzuki, Keisuke

Department of Chemistry, Tokyo Institute of CORPORATE SOURCE:

Technology, JST-Agency, 2-12-1, Ookayama, Meguro-ku,

TT

Tokyo, 152-8551, Japan

Heterocycles (2005), 66, 153-160 SOURCE:

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 144:331652 OTHER SOURCE(S):

Т

GΙ

Scandium triflate efficiently catalyzes C-glycosylation of ΔR β -diketones with glycosyl acetate. Elaboration of cyclization of the β -diketo moiety in the resulting *C*-glycosides, e.g. I, to heterocycles provides a flexible route to the C-nucleoside

analogs, e.g. II.

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

2002:585160 CAPLUS <<LOGINID::20080213>> ACCESSION NUMBER:

138:39469 DOCUMENT NUMBER:

TITLE: One-pot synthesis of C-glycosylic compounds (\mathcal{C}

-glycosides) from D-glucal, p-tolylsulfenyl

chloride and aromatic/heteroaromatic compounds in the presence of Lewis acids

AUTHOR(S): Koikov, Leonid N.; Smoliakova, Irina P.; Liu, Hui

Chemistry Department, University of North Dakota, CORPORATE SOURCE:

Grand Forks, ND, 58202-9024, USA

SOURCE: Carbohydrate Research (2002), 337(14), 1275-1283

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English OTHER SOURCE(S): CASREACT 138:39469

AB In the presence of Zn(CN)2, benzylated 2-thio-2-S-(p-tolyl)pyranosyl chlorides (I) generated in situ from tri-O-benzyl-D-glucal and p-TolSCl, smoothly react with thiophene, 2-methylthiophene, furan, 2-methylfuran, and N-methylpyrrole to give heteroaryl 2-thio-2-S-(p-tolyl)-C- β -D-glucopyranosylic compds. in good yields. Upon treatment with SnCl4, the reaction of chlorides I with thiophene or 1,4-dimethoxybenzene provides the corresponding benzylated C- β -D-glucofuranosylic derivs. Under the same conditions, the use of 2-methylthiophene, furan, 2-methylfuran, or N-methylpyrrole yields (2S,3R,4R,5S)-1,3,4-tribenzyloxy-6,6-diheteroaryl-5-(p-tolylthio)-2-hexanoles. Treatment of I and mesitylene with AgBF4 yielded 1,6-anhydro-3,4-di-O-benzyl-2-thio-2-S-(p-tolyl)- β -D-glucose.

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:149709 CAPLUS <<LOGINID::20080213>>

DOCUMENT NUMBER: 137:20514

TITLE: InCl3-catalyzed stereoselective synthesis of

C-glycosyl heteroaromatics

AUTHOR(S): Yadav, J. S.; Reddy, B. V. S.; Raman, J. V.; Niranjan,

N.; Kiran Kumar, S.; Kunwar, A. C.

CORPORATE SOURCE: Division of Organic Chemistry, Indian Institute of

Chemical Technology, Hyderabad, 500007, India

SOURCE: Tetrahedron Letters (2002), 43(11), 2095-2098

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:20514

AB Glycals react smoothly with furan in the presence of a catalytic amount of indium trichloride at ambient temperature to afford predominantly the

C-3-substituted glycals in high yields. Other heteroaroms.

including 2-benzyloxymethylfuran, thiophene and N-Boc protected indole

afford exclusively C-1-glycosides in good yields with high

 β -selectivity under similar reaction conditions.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:460849 CAPLUS <<LOGINID::20080213>>

DOCUMENT NUMBER: 133:222885

TITLE: Synthesis of C-glycosylic compounds using

three-membered cyclic intermediates

AUTHOR(S): Smoliakova, Irina P.

CORPORATE SOURCE: Chemistry Department, University of North Dakota,

Grand Forks, ND, 58202-9024, USA

SOURCE: Current Organic Chemistry (2000), 4(6), 589-608

CODEN: CORCFE; ISSN: 1385-2728

PUBLISHER: Bentham Science Publishers DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 59 refs. on numerous methods for preparation of C-glycosylic compds. (<u>C-glycosides</u>). One general approach to the synthesis of these important O-glycoside analogs is based on the use of three-membered cyclic intermediates. The review is focused on the application of glycal and exo-glycal derived epoxides and episulfonium and

iodonium ions for preparation of $\underline{\textit{C-glycosides}}$. Reactions of glycal epoxides with organocuprates, Grignard and organolithium reagents, allylsilane, sodio malonate, and lithium alkynyl derivs. have been shown to be convenient for stereoselective synthesis of both lphaand $\beta\text{--}\underline{\textit{C-glycosides.}}$ The unprotected C(2)-hydroxyl group in the products can be removed in two steps providing an easy excess to 2-deoxy- \underline{C} - $\underline{glycosides}$. Electrophilic addition of arylsulfenyl chloride (ArSCl) to glycals has afforded 2-(arylthio)pyranosyl chlorides. Upon the treatment with a Lewis acid, the chlorides have been converted to episulfonium-like intermediates. Reactions of the latter species with silyl enol ethers, TMSCN, allylsilanes, vinyl ethers, and heteroarom. compds. have opened a new synthetic route to 2-(arylthio)- β - Cglycosides having a variety of functional groups in the lateral chain. The 2-arylthic group in the products can be selectively removed using Raney Ni or n-Bu3SnH/AIBN. Episulfonium ions generated from ArSCl adducts of 1-methylene sugars have reacted with O- and C-nucleophiles to afford O-ketopyranosides and 1,1-dialkyl \underline{C} - $\underline{glycosides}$, resp. Acid catalyzed and nucleophilic ring openings of spiro epoxides obtained from exo-glycals have occurred with opposite stereoselectivity. Iodonium-promoted reactions of exo-glycals have led to O-ketopyranoside derivs.

REFERENCE COUNT: 159 THERE ARE 159 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:298378 CAPLUS <<LOGINID::20080213>>

DOCUMENT NUMBER: 131:19242

TITLE: Preparation of C-glycosylated aryltin compounds

INVENTOR(S): Sato, Susumu; Kurihayashi, Takeshi

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

LANGUAGE: Japane

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11124392	A	19990511	JP 1997-288847	19971021
PRIORITY APPLN. INFO.:			JP 1997-288847	19971021
OTHER SOURCE(S):	MARPAT	131:19242		

GI For diagram(s), see printed CA Issue.

acetyl- β -L-fucopyranosyl)benzene. A mixture of the brominated product, Pd(PPh3)4, K2CO3, and toluene was treated with Bu3SnSnBu3 under reflux for 10 h to give 77% 1,4-dimethoxy-2-(2,3,4-tri-O-acetyl- β -L-fucopyranosyl)-5-(tri-n-butylstannyl)benzene.

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L3		0 S L1 SSS FULL
	FILE	'CAPLUS' ENTERED AT 15:29:48 ON 13 FEB 2008
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L4	2059	S	C-GLYCOSIDE
L5	0	S	L4 AND BENZOTHIOPHENE

L5 0 S L4 AND BENZOTHIOPHENE L6 5 S L4 AND HETEROAROMATIC L7 5 S L6 AND PY<=2005

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